Reconsideration is respectfully requested of the Official Action of September 4, 2003,

relating to the above-identified application.

A one-month extension of time, together with the associated fee is filed herewith.

With entry of the foregoing amendment, the claims in the application are Claims 1-7.

New Claims 6 and 7 define the functionalized, structurally modified silica of the

invention in terms of the method by which it is made. No new matter is therefore presented

since new Claim 6 incorporates much of the subject matter or original Claim 4 and new Claim 7

sets forth the additional features of destructuring or compacting and optionally regrinding the

silica in a mill.

The rejection of Claims 1-5 under 35 U.S.C. § 102(b), as anticipated by U.S. Patent

5,959,005 to *Hartmann*, is traversed and reconsideration is respectfully requested. The cited

reference is assigned to the same assignee as the present application. However, there is an

important distinction between the subject matter of the cited reference and the present invention.

Hartmann discloses a method of producing a surface modified, hydrophobic silanized

silica powder with the physical chemical properties set forth in the table as shown, for example,

in Claim 1 of the patent, in col. 2, beginning at line 42. There is an overlap in connection with

the specific surface area (BET), the primary particle size, the tamped density, pH carbon content,

and the DBP number. However, it is important to note that the Hartmann product is made by

modifying the surface with hexamethyldisilazane. Silica produced by the Hartmann process is

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useful as a filler in silicon rubber systems, in paints, the production of cable gels and other purposes set forth in *Hartmann* beginning at col. 1, lines 48-59.

In contrast, the claims in the present application set forth that the silica has functional groups which are 3-methacryloxypropylsilyl and glycidyloxypropylsilyl. Thus, the claims clearly distinguish from the subject matter of *Hartmann*. The silica according to the present invention can be used for radiation curing coatings, for example, UV coatings, and improves the scratch resistance of surfaces.

This can be seen from the data in the application beginning on pg. 5 which show a comparison between the Aerosil® 8200 and the silica according to the invention as described in Example 1. The Aerosil® 8200 relates to a silica which is surface modified with hexamethylsilazane. This is the same silica as the silica disclosed by *Hartmann*.

In order to compare the *Hartmann* silica with the silica of the present invention, it is necessary to use different dispersing conditions because it is more difficult to disperse the Aerosil® 8200 in a coating composition. Thus, in order to compare the scratch resistance by using the reflectant of light on a surface, it is mandatory to use a silica having the same grindometer value, which defines the largest particles in the dispersion. Without using silicas of the same grindometer value, the light reflection cannot be correctly estimated because larger particles give a lower reflection.

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Therefore, in Table 2, the same grindometer value of less than 10 is shown for all the

examples. This means that the particle size of all silicas in the comparison in the coating

compositions is equal.

The examples contained in this application show that the silica of the present invention,

as compared to the silica of *Hartmann* has a better anti-scratch behavior and is much easier to be

dispersed in a coating system. These advantages and benefits could not have been predicted

from Hartmann and, consequently, applicants submit that the claims define a patentable

difference with respect to Hartmann.

In view of the differences pointed out between the present invention and that of

Hartmann, applicants respectfully submit that the Hartmann reference should be withdrawn as a

reference because it fails to describe the invention within the meaning of 35 U.S.C. § 102(b).

In view of the foregoing, favorable action at the Examiner's earliest convenience is

respectfully requested.

Respectfully submitted,

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